
Development of new base material founded on Hydal PHA as a replacement for microplastics

Project name and registration number:

Development of new base material founded on Hydal PHA as a replacement for microplastics

FV40094

Operational programme, areas of assistance, provider:

TRIO Programme, assistance for research, development and innovation, Ministry of Industry and Trade

Applicant:

NAFIGATE Corporation

Partners:

Institute of Microbiology of the CAS, v. v. i., University of Chemistry and Technology in Prague – Faculty of Food and Biochemical Technology, Brno University of Technology – Faculty of Chemistry

NAFIGATE Corporation in cooperation with the Institute of Microbiology of the CAS, the University of Chemistry and Technology in Prague and the Brno University of Technology implements the project “Development of new base material founded on Hydal PHA as a replacement for microplastics” from 1.4. 2019 to 31.12. 2021.

The goal of this project is to develop new materials based on Hydal PHA, which will serve as replacements for microplastics and other types of microparticles in cosmetics and other industries.

The project builds on previously implemented research activities, which confirmed the possibility of using Hydal PHA as a replacement material in the field of abrasives. The project will implement developmental activities to replace the contents of cosmetic materials, microparticles in toothpaste and other products.

Research activities will also include the optimization of microbiological processes (conducted by The Institute of Microbiology of the CAS), development of analytical methods (conducted by The University of Chemistry and Technology in Prague) and biodegradability and ecotoxicity testing (conducted by The Brno University of Technology).

